

Today's Topics:

Recent (and not so recent) AMSAT bulletins (part 2 of 2)

Date: Wednesday, 6 December 1989 00:09-MST
From: ka9q.bellcore.com!karn@bellcore.com (Phil Karn)
Subject: Recent (and not so recent) AMSAT bulletins (part 2 of 2)
Message-ID: <KPETERSEN.12548650410.BABYL@WSMR-SIMTEL20.ARMY.MIL>

Posted: Sat, Nov 25, 1989 7:23 PM GMT Msg: FGIIJ-4100-8654
From: DLOUGHMILLER
To: AMSAT
CC: NCS, IS
Subj: ANS schedule change

Beginning this week the AMSAT News Service will observe a new production schedule. In the past several years the News Service has released material on Saturdays for dissemination through the following week. Beginning this week News Service releases will be made on Monday evenings US time for use through the following week. This change is being made in order to allow for additional input to the ANS to be made and for a more comprehensive review of ANS material to take place involving a small editorial review staff of key AMSAT managers. This is to insure that the material that is being published is as accurate and complete as possible.

Net control stations who will be handling net control activities during the weekend of November 25 and 26 should utilize ANS bulletins \$ANS-322 and \$ORBS-317 for these net sessions. The net set of news service material will be posted Monday November 27th.

We greatly appreciate everyone's support and cooperation as we make these changes to the distribution of AMSAT News Service material.

73

Doug Loughmiller, K05I

Posted: Tue, Nov 28, 1989 2:26 AM GMT Msg: AGIJ-4102-2079
From: DLOUGHMILLER
To: AMSAT, NCS, IS
CC: BOD, OFFICERS
Subj: ANS material Delay

Well Boys,

I am afraid that I must report that a small glitch has caught up with us in our first effort to disseminate the ANS material in the new

schedule.

The material will be posted about 12 hours later than announced over the weekend. The material will be posted no later than 16:00 UTC Tuesday in plenty of time for the Tuesday evening nets here in the US.

I apologize for the delay this time around. Please bear with us as we get our new mechanism working properly. I do believe that the improved service with the ANS bulletin material will be worth the trouble we've had getting it out this week.

73

Doug

Posted: Tue, Nov 28, 1989 10:14 PM GMT Msg: DGIJ-4102-8928
From: DLOUGHMILLER
To: AMSAT, NCS
CC: IS
Subj: ANS release

Better late than never as they say. The ANS-332 bulletins are now posted to IS

Thanks for the cooperation.

73 Doug

Posted: Tue, Nov 28, 1989 10:18 PM GMT Msg: CGIJ-4102-8969
From: DLOUGHMILLER
To: IS
Subj: \$ANS-332

SB ALL @ AMSAT \$ANS-332.01
MICROSAT-UOSAT LAUNCH CAMPAIGN BEGINS THIS WEEK

HR AMSAT NEWS SERVICE BULLETIN 332.01 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

MICROSAT - UOSAT LAUNCH CAMPAIGN TO BEGIN THIS WEEK

With the launch of six OSCAR satellites a little over one month away, AMSAT-NA and the University of Surrey will be dispatching the first teams of engineers and technicians to the European Space Agency launch site in Kourou, French Guiana beginning on Friday of this week. Other support personnel including Jose Macho, LU7JCN of AMSAT Argentina and Dr. Junior DeCastro, PY2BJO of AMSAT Brazil will be travelling to the jungle launch site in support of their payload activities as well. In all, a total of three separate teams of personnel will be travelling

to Kourou during the month of December on behalf of AMSAT-NA and the Microsat project.

Activities related to the preparation of the six OSCAR satellites for their trip to low earth orbit have been accelerated over the past several weeks. During the Thanksgiving weekend a small team including W3GEY, N4HY, WTOM, Jeff Zerr and others worked on various software and hardware issues at the AMSAT Boulder, Colorado lab. The team reports that good progress was made on the AMSAT-NA PACSAT and the AMSAT Argentina LUSAT packet store-and-forward spacecraft as well as the BRAMSAT Digital Orbiting Voice Encoder spacecraft, DOVE during the weekend session. Reports from the University of Surrey indicate that last minute preparations of the UOSAT D&E spacecraft are also progressing smoothly.

In addition to the Thanksgiving weekend activities, earlier last week technicians at Weber State College in Ogden, Utah performed final check out of the various experiments aboard the Webersat spacecraft. Bob Twiggs, Director of the Center for Aerospace Technology at Weber State reports that all experiments passed final checked out with flying colors. Webersat is the fourth Microsat in the constellation of birds to be launched in January.

The MICROSAT - UOSAT launch now scheduled for January 9th promises to be a truly exciting and momentous event. AMSAT-NA will be announcing the plans for real time coverage of the launch activity and for updated bulletin material during the first few days of life for the six new OSCARs. Stay tuned to the AMSAT HF and VHF Nets and to the AMSAT News Service Bulletins for the latest information surrounding the impending launch of the next generation of OSCAR satellites.

/EX
SB ALL @ AMSAT \$ANS-332.02
WB9ANQ APPOINTED AMSAT TECHNICAL COORDINATOR

HR AMSAT NEWS SERVICE BULLETIN 332.02 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

AMSAT Vice President for Operations, Courtney Duncan, N5BF, has appointed Bruce Rahn, WB9ANQ, Technical Coordinator for the Command Station Development Program. He replaces former Command Station Development Program administrator Ralph Wallio, W0RPK, who recently began a well deserved sabbatical from his many AMSAT duties. Bruce has been an active satellite user for several years and has been very active in the Command Station Development Program since its inception early in 1989, conducting technical projects and providing assistance to other team members. All correspondence from current members as

well as new inquiries (SASE for information and application) should now be directed to Bruce Rahn, WB9ANQ, 410 Coronado Trail, Enon, Ohio, 45323.

Those already signed up will be hearing from WB9ANQ shortly about continuation and resumption of ongoing activities. For those who are interested in getting started but have not yet applied, program entry level membership has not been closed, nor will it be in the near future. Send an SASE with two units of postage to the address given above for more information and an application.

For further information, see upcoming issues of ASR or the AMSAT-NA Journal.

/EX

SB ALL @ AMSAT \$ANS-332.03
W8GUS APPOINTED 75 METER NET CONTROL STATION

HR AMSAT NEWS SERVICE BULLETIN 332.03 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

AMSAT Headquarters is pleased to announce the appointment of Ron Long, W8GUS as primary AMSAT 75 Meter East Coast Net control station. Ron will begin his duties in this capacity December 5th, 1989.

For the past year the net control duties for this net have been handled by K4EDU and W4BIW. With both of these stations being located in the deep south, coverage into certain parts of the coverage area of this net, particularly New England, has been spotty at best. AMSAT officials felt that it would be in the best interest of the East Coast Net to locate a primary net control station in a more central location to the region which is to be covered. W8GUS was sought out to serve in this capacity because of his centralized location, strong signal on 75 meters and his background both with the AMSAT organization and professionally having retired as a professor from Ohio State University. K4EDU will serve as back up to W8GUS in the future.

Please join in welcoming W8GUS to his new role by checking into the AMSAT 75 Meter East Coast Net on Tuesday evenings at 9pm EST on a frequency of 3.840 Mhz.

/EX

SB ALL @ AMSAT \$ANS-332.04
AMSAT OPERATIONS NET SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 332.04 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

Following is the schedule for Operations Nets for the next several weeks. Note that times may change by up to half an hour depending on the satellite mode switch schedule. Watch ANS and the nets for further information.

Day	UTC	Day U.S.	Freq.	NCS	Guest
09 Dec 89	1445	Saturday	435.970	N5BF	open
16 Dec 89	1830	Saturday	435.970	N5BF	K05I
30 Dec 89	1415	Saturday	435.970	N5BF	KL7GRF
07 Jan 89	1700	Sunday	435.970	TBD	TBD
20 Jan 90	1400	Saturday	435.970	N5BF	TBD

The 09 December net session will be an open forum.

Doug Loughmiller, K05I, AMSAT-NA President and General Manager is to be the featured guest on the 16 December.

On 30 December, John Fail, KL7GRF, will be discussing satellite DXing, presenting operating hints and information about the upcoming DXpedition to Bouvet Island.

Mark your calendars now for both of these interesting and informative Operations Net sessions.

/EX
SB ALL @ AMSAT \$ANS-332.05
A0-13 OPERATING SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 332.05 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

Here is the current A0-13 transponder operating schedule and Bahn coordinates for the spacecraft following reorientation on November 22 as supplied from AMSAT-DL:

A013 TRANSPONDER SCHEDULE

MODE B MA 000 TO MA 110
MODE JL MA 110 TO MA 145

OFF MA 145 TO MA 150 BAHN LAT 179.4 deg
S BEACON MA 146 TO MA 147 BAHN LON +3.6 deg
MODE S MA 147 TO MA 160
MODE B MA 150 TO MA 255
OMNI ANT MA 225 TO MA 035

/EX

SB ALL @ AMSAT \$ANS-332.06

UPCOMING ZRO TEST SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 332.06 FROM AMSAT HQ
SILVER SPRING, MD NOVEMBER 28, 1989
TO ALL RADIO AMATEURS BT

The following is a schedule of Mode "B" ZRO tests with a downlink frequency of 145.840 MHz and was chosen for convenient operating times and favorable squint angles:

Saturday	December 02, 1989 at 12:40 UTC
Saturday	December 16, 1989 at 20:00 UTC
Saturday	December 30, 1989 at 16:00 UTC
Saturday	January 13, 1990 at 12:00 UTC
Saturday	January 20, 1990 at 15:30 UTC

Any changes will be announced as soon as possible via the AMSAT HF/VHF Nets and OSCAR-13 Operations Nets. ZRO brochures are available from WA5ZIB, Andy MacAllister, AMSAT V.P. of User Operations, 14714 Knightsway Drive, Houston, TX 77083 for an S.A.S.E. with one unit of postage.

/EX

Posted: Tue, Dec 5, 1989 11:04 PM GMT

Msg: LGIJ-4111-6496

From: DLOUGHMILLER

To: IS

CC: W1AW

Subj: \$ANS-339

SB ALL @ AMSAT \$ANS-339.01
MICROSATS ARRIVE IN KOUROU

HR AMSAT NEWS SERVICE BULLETIN 339.01 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

MICROSAT LAUNCH CAMPAIGN COMMENCES

On Saturday, December 2nd, the four MICROSAT satellites (PACSAT, LUSAT, DOVE, and WEBERSAT) arrived in Kourou, French Guiana from Boulder, CO for the start of the MICROSAT launch campaign which began on Monday, December 4th. Accompanying the MICROSATs were AMSAT-NA Vice President of Engineering Jan King, W3GEY, Jeff Zerr, Jim Boschert and Chuck Stout. Dr. Junior DeCastro, PY2BJ0 from AMSAT Brazil and Jose Machao, LU7JCN from AMSAT Argentina joined the AMSAT-NA team members in Kourou over the weekend. Over the next two weeks each of the MICROSAT satellites will undergo final preparation and testing of all on-board sub-systems in readiness for launch. Most noteworthy in this process will be the loading of the computer software into each of the satellite's on-board computers. In support of this operation AMSAT-NA volunteer Harold Price, NK6K will be travelling to Kourou in the next week to lend his expertise in this critically important process. This phase of the launch campaign will come to culmination with the mating of the all six of the OSCAR satellites to the Ariane launch vehicle's ASAP structure, now scheduled to take place on December 15th.

The official MICROSAT-UOSAT launch date has now been set for January 11, 1990 at 01:35 UTC. An extensive AMSAT Launch Information Net Service (ALINS) effort is being planned by AMSAT officials so that it will be possible for radio amateurs world-wide to follow the progress of the six OSCAR satellites during the launch sequence. Specific details about the ALINS will be made available from AMSAT Headquarters in the next two weeks as final arrangements are made.

AMSAT-NA officials point out that assuming a nominal launch, general operations from the MICROSATs are not expected to commence until LATE FEBRUARY at the earliest. During the weeks following the launch, extensive engineering tests will be performed on all of the satellites. Also, refinement of the software which supports the various payloads including the digital store and forward function aboard PACSAT and LUSAT, the digital voice encoding aboard DOVE and the CCD camera experiment aboard WEBERSAT will occur once the satellites are in orbit.

AMSAT-NA officials ask that users refrain from attempting to access the MICROSATs until an official announcement from AMSAT Headquarters is made indicating that they are open for general use. Attempts to connect to the satellites will be pointless until the software is finalized as the spacecraft simply will not respond to a connect

request. Unnecessary activity on the uplink channels will simply complicate command station access to the spacecraft during the short duration passes, thus causing software preparation time to lengthen.

/EX

SB ALL @ AMSAT \$ANS-339.02
AMSAT CSDP VOLUNTEERS SOUGHT

HR AMSAT NEWS SERVICE BULLETIN 339.02 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

AMSAT CSDP VOLUNTEERS SOUGHT

With the up-coming launch of the four AMSAT MICROSATs, AMSAT-NA is looking for additional satellite enthusiasts who would be willing to volunteer their time to becoming part of the Command Station Development Program (CSDP). The CSDP is designed to train amateur satellite enthusiasts to become competent spacecraft controllers. The CSDP will help train volunteers in the techniques of telemetry collection and analysis for the purposes of determining the condition of a given spacecraft in orbit. There are various levels of participation for interested volunteers; the first level is basically to develop a proficiency of telemetry collection and analysis. The highest level of participation of a CSDP station is actually controlling one of the OSCAR satellites.

The entry requirements for a CSDP applicant is that the volunteer must be currently capable of operation on Mode A, B, or J. As the present group of AMSAT ground command stations (DB2OS, VK5AGR, ZL1AOX, KA9Q and G3RUH) can readily attest to, being a satellite controller requires a great deal of dedication and a lot of personal tenacity. So needless to say, these traits would be beneficial to anyone who contemplates participation in this activity.

If you would like more information about the CSDP and the various levels of participation, send a s.a.s.e. to Bruce Rahn (WB9ANQ), Technical Coordinator for the CSDP, 410 Coronado Trail, Enon, Ohio, 45323.

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SB ALL @ AMSAT \$ANS-339.03
SA AMSAT TO BEGIN PROJECT

HR AMSAT NEWS SERVICE BULLETIN 339.03 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

SA AMSAT INVITED TO PARTICIPATE IN UNIVERSITY SATELLITE

SA AMSAT has been invited to participate in a Satellite project being planned by the University of Stellenbosch for launch in the 1991/92 time frame. The University is situated near Cape Town and has recently expanded its activity by the establishment of a Bureau for Systems Engineering at its new Technopark near the main Campus.

The small satellite will include a transponder and several student scientific experiments. SA AMSAT President Hans van de Groenendaal ZS6AKV attended a meeting at the University on December 4 and 5 to discuss details of the project.

In addition, SA AMSAT is also studying proposals for participation in the AMSAT-DL Phase 3D project. Details of various propagation studies are being evaluated and will be used to formulate a proposal for an educational transponder. It is expected that SA AMSAT will submits its report and proposals to AMSAT-DL by mid December.

/EX

SB ALL @ AMSAT \$ANS-339.04
KA1M NAMED DEPUTY ANS DIRECTOR

HR AMSAT NEWS SERVICE BULLETIN 339.04 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

KA1M Named Deputy AMSAT News Service Director

AMSAT Vice President of Operations Courtney Duncan, N5BF has announced the appointment of long time AMSAT volunteer Drew Deskur, KA1M to the position of Deputy AMSAT News Service Director. Drew will be assisting ANS Director Dave Cowdin, WD0HHU, with a number of duties in support of the weekly production of ANS bulletins for use by AMSAT VHF and HF nets, packet radio and the amateur radio media.

Drew's primary function will be to aid the information collection process and with the funnelling of such information through the proper channels of the ANS production staff. The addition of KA1M to the ANS production team will insure that material that is published through this medium will be as accurate and as timely as possible.

Please join in welcoming KA1M to his new position.

/EX

SB ALL @ AMSAT \$ANS-339.05
AMSAT OPERATIONS NET SCHEDULE

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/EX
SB ALL @ AMSAT \$ANS-339.06
SATELLITE OPERATING SCHEDULE

HR AMSAT NEWS SERVICE BULLETIN 339.06 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

OSCAR Satellite Operating Schedule

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OFF	MA 145 TO MA 150	BAHN LAT +3.6 deg
S BEACON	MA 146 TO MA 147	BAHN LON 179.4 deg
MODE S	MA 147 TO MA 160	
MODE B	MA 150 TO MA 255	
OMNI ANT	MA 225 TO MA 035	

AMSAT OSCAR-10 is currently available for whole orbit operation via the mode B transponder.

/EX

SB ALL @ AMSAT \$ANS-339.07

ZRO TEST SCHEUDLE

HR AMSAT NEWS SERVICE BULLETIN 339.07 FROM AMSAT HQ
SILVER SPRING, MD DECEMBER 5, 1989
TO ALL RADIO AMATEURS BT

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End of INFO-HAMS Digest V89 Issue #996
